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# **BLLD ANNOUNCEMENT BULLETIN**

**A GUIDE TO BRITISH  
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**July 1978**

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COMPOSITE BOX GIRDER BIFURCATED BRIDGE PROJECT:  
DEAD LOAD DATA: ATTACHMENT OF PRECAST SLAB UNIT 6  
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- \* Eng. Structures Lab. CESLIC Report CBB5
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COMPOSITE BOX GIRDER BIFURCATED BRIDGE PROJECT:  
DEAD LOAD DATA: ATTACHMENT OF PRECAST SLAB UNIT 7  
Owens, G.W. et al.

- \* Eng. Structures Labs. CESLIC Report CBB5
- \* Data Report D10 (BLLD 3123.779V)

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- \* Eng. Structures Labs. CESLIC Report CBB5
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DEAD LOAD DATA: ATTACHMENT OF PRECAST SLAB UNIT 4  
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- \* Eng. Structures Labs. CESLIC Report CBB5
- \* Data Report D13 (BLLD 3123.779V)

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- \* Data Report D14 (BLLD 3123.779V)

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Owens, G.W. et al.

- \* Eng. Structures Labs. CESLIC Report CBB6
- \* Data Report L2 (BLLD 3123.781V)

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LIVE LOAD DATA: LANES AB1, AB2, AB3 AND AB4 LOADED  
INDIVIDUALLY TO LOAD FACTOR 0.4 ON UNCRACKED  
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Owens, G.W. et al.

- \* Eng. Structures Labs. CESLIC Report CBB6
- \* Data Report L3 (BLLD 3123.781V)

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September 1977 pp.100

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COMPOSITE BOX GIRDER BIFURCATED BRIDGE PROJECT:  
LIVE LOAD DATA: LANES C<sub>1</sub> D1, C<sub>1</sub> D2, C<sub>2</sub> E1, C<sub>2</sub> E3  
LOADED INDIVIDUALLY TO LOAD FACTOR 0.4 ON  
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Owens, G.W. et al.

- \* Eng. Structures Labs. CESLIC Report CBB6
- \* Data Report L4 (BLLD 3123.781V)

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COMPOSITE BOX GIRDER BIFURCATED BRIDGE PROJECT:  
LIVE LOAD DATA: LANE BC<sub>1</sub> LOADED TO LOAD FACTOR  
0.4 ON UNCRACKED STRUCTURE  
Owens, G.W. et al.

- \* Eng. Structures Labs. CESLIC Report CBB6
- \* Data Report L5 (BLLD 3123.781V)

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September 1977 pp.79

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COMPOSITE BOX GIRDER BIFURCATED BRIDGE PROJECT:  
LIVE LOAD DATA: LANE BC<sub>2</sub> LOADED TO LOAD FACTOR  
0.4 ON UNCRACKED STRUCTURE  
Owens, G.W. et al.

- \* Eng. Structures Labs. CESLIC Report CBB6
- \* Data Report L6 (BLLD 3123.781V)

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LIVE LOAD DATA: LANE BC<sub>2</sub> LOADED TO LOAD FACTOR  
0.4 ON UNCRACKED STRUCTURE  
Owens, G.W. et al.

- \* Eng. Structures Labs. CESLIC Report CBB6
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LIVE LOAD DATA: LANE BC<sub>2</sub> 3A LOADED TO LOAD FACTOR  
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Owens, G.W. et al.

- \* Eng. Structures Labs. CESLIC Report CBB6
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COMPOSITE BOX GIRDER BIFURCATED BRIDGE PROJECT:  
LIVE LOAD DATA: LANE BC<sub>2</sub> 3B LOADED TO LOAD FACTOR  
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Owens, G.W. et al.

- \* Eng. Structures Labs. CESLIC Report CBB6
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COMPOSITE BOX GIRDER BIFURCATED BRIDGE PROJECT:  
LIVE LOAD DATA: APPLICATION OF UDL TO UNCRACKED  
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Owens, G.W. et al.

- \* Eng. Structures Labs. CESLIC Report CBB6
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COMPOSITE BOX GIRDER BIFURCATED BRIDGE PROJECT:  
LIVE LOAD DATA: APPLICATION OF UDL ON NOMINALLY  
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RELOADING FIVE TIMES FROM LOAD FACTOR 0 TO 1.0  
Owens, G.W. et al.

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COMPOSITE BOX GIRDER BIFURCATED BRIDGE PROJECT:  
LIVE LOAD DATA: APPLICATION OF UDL ON NOMINALLY  
CRACKED STRUCTURE AT LOAD FACTOR 1.1  
Owens, G.W. et al.

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- \* Data Report L13 (BLLD 3123.781V)

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COMPOSITE BOX GIRDER BIFURCATED BRIDGE PROJECT:  
LIVE LOAD DATA: APPLICATION OF UDL ON NOMINALLY  
CRACKED STRUCTURE AT LOAD FACTOR 1.2  
Owens, G.W. et al.

- \* Eng. Structures Labs. CESLIC Report CBB6
- \* Data Report L14 (BLLD 3123.781V)

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September 1977 pp.99

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COMPOSITE BOX GIRDER BIFURCATED BRIDGE PROJECT:  
LIVE LOAD DATA: APPLICATION OF UDL ON NOMINALLY  
CRACKED STRUCTURE AT LOAD FACTOR 1.3  
Owens, G.W. et al.

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- \* Data Report L15 (BLLD 3123.781V)

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September 1977 pp.101

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COMPOSITE BOX GIRDER BIFURCATED BRIDGE PROJECT:  
LIVE LOAD DATA: APPLICATION OF UDL ON NOMINALLY  
CRACKED STRUCTURE AT LOAD FACTOR 1.3 AFTER  
RELOADING SIX TIMES FROM LOAD FACTOR 0 TO 1.3  
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- \* Data Report L16 (BLLD 3123.781V)

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COMPOSITE BOX GIRDER BIFURCATED BRIDGE PROJECT:  
LIVE LOAD DATA: L NES AB1, AB2, AB3 AND AB4  
LOADED INDIVIDUALLY TO LOAD FACTOR 1.0 ON  
NOMINALLY CRACKED STRUCTURE  
Owens, G.W. et al.

- \* Eng. Structures Labs. CESLIC Report CBB6
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COMPOSITE BOX GIRDER BIFURCATED BRIDGE PROJECT:  
LIVE LOAD DATA: LANES C<sub>1</sub>D1, C<sub>1</sub>D2, C<sub>1</sub>E1, C<sub>2</sub>E2 AND  
C<sub>2</sub>E3 LOADED INDIVIDUALLY TO LOAD FACTOR 1.0 ON  
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Owens, G.W. et al.

- \* Eng. Structures Labs. CESLIC Report CBB6
- \* Data Report L18 (BLLD 3123.781V)

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COMPOSITE BOX GIRDER BIFURCATED BRIDGE PROJECT:  
LIVE LOAD DATA: LANE BC<sub>1</sub> LOADED TO LOAD FACTOR  
1.0 ON NOMINALLY CRACKED STRUCTURE  
Owens, G.W. et al.

- \* Eng. Structures Labs. CESLIC Report CBB6
- \* Data Report L19 (BLLD 3123.781V)

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COMPOSITE BOX GIRDER BIFURCATED BRIDGE PROJECT:  
LIVE LOAD DATA: LANE BC<sub>2</sub> LOADED TO LOAD FACTOR  
1.0 ON NOMINALLY CRACKED STRUCTURE  
Owens, G.W. et al.

- \* Eng. Structures Labs. CESLIC Report CBB6
- \* Data Report L20 (BLLD 3123.781V)

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COMPOSITE BOX GIRDER BIFURCATED BRIDGE PROJECT:  
LIVE LOAD DATA: LANE BC<sub>2</sub>1 LOADED TO LOAD FACTOR  
1.0 ON NOMINALLY CRACKED STRUCTURE  
Owens, G.W. et al.

- \* Eng. Structures Labs. CESLIC Report CBB6
- \* Data Report L21 (BLLD 3123.781V)

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COMPOSITE BOX GIRDER BIFURCATED BRIDGE PROJECT:  
LIVE LOAD DATA: LANE BC<sub>2</sub>2 LOADED TO LOAD FACTOR  
1.0 ON NOMINALLY CRACKED STRUCTURE  
Owens, G.W. et al.

- \* Eng. Structures Labs. CESLIC Report CBB6
- \* Data Report L22 (BLLD 3123.781V)

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COMPOSITE BOX GIRDER BIFURCATED BRIDGE PROJECT:  
LIVE LOAD DATA: LANE BC<sub>2</sub>3A LOADED TO LOAD FACTOR  
1.0 ON NOMINALLY CRACKED STRUCTURE  
Owens, G.W. et al.

- \* Eng. Structures Labs. CESLIC Report CBB6
- \* Data Report L23 (BLLD 3123.781V)

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COMPOSITE BOX GIRDER BIFURCATED BRIDGE PROJECT:  
LIVE LOAD DATA: LANE BC<sub>2</sub>3B LOADED TO LOAD FACTOR  
1.0 ON NOMINALLY CRACKED STRUCTURES  
Owens, G.W. et al.

- \* Eng. Structures Labs. CESLIC Report CBB6
- \* Data Report L24 (BLLD 3123.781V)

Imperial College of Science & Technology, Civil  
Engineering Department  
September 1977 pp.78

R

COMPOSITE BOX GIRDER BIFURCATED BRIDGE PROJECT:  
LIVE LOAD DATA: HB VEHICLE LOAD ON LANE BC<sub>2</sub>1  
OF NOMINALLY CRACKED STRUCTURE  
Owens, G.W. et al.

- \* Eng. Structures Labs. CESLIC Report CBB6
- \* Data Report L25 (BLLD 3123.781V)

Imperial College of Science & Technology, Civil  
Engineering Department  
September 1977 pp.78

R

COMPOSITE BOX GIRDER BIFURCATED BRIDGE PROJECT:  
LIVE LOAD DATA: HB VEHICLE LOAD ON LANE BC<sub>2</sub>2  
OF NOMINALLY CRACKED STRUCTURE  
Owens, G.W. et al.

- \* Eng. Structures Labs. CESLIC Report CBB6
- \* Data Report L26 (BLLD 3123.781V)

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Engineering Department  
September 1977 pp.78

R

COMPOSITE BOX GIRDER BIFURCATED BRIDGE PROJECT:  
LIVE LOAD DATA: HB VEHICLE LOAD ON LANE BC<sub>2</sub>3B OF  
NOMINALLY CRACKED STRUCTURE  
Owens, G.W. et al.

- \* Eng. Structures Labs. CESLIC Report CBB6
- \* Data Report L27 (BLLD 3123.781V)

Imperial College of Science & Technology, Civil  
Engineering Department  
September 1977 pp.77

R

COMPOSITE BOX GIRDER BIFURCATED BRIDGE PROJECT:  
LIVE LOAD DATA: HB VEHICLE LOAD ON LANE BC<sub>1</sub>2 OF  
NOMINALLY CRACKED STRUCTURE  
Owens, G.W. et al.

- \* Eng. Structure Labs. CESLIC Report CBB6
- \* Data Report L28 (BLLD 3123.781V)

Imperial College of Science & Technology, Civil  
Engineering Department  
September 1977 pp.77



R

COMPOSITE BOX GIRDER BIFURCATED BRIDGE PROJECT:  
LIVE LOAD DATA: HB VEHICLE LOAD ON LANE BC<sub>1</sub> OF  
NOMINALLY CRACKED STRUCTURE  
Owens, G.W. et al.

- \* Eng. Structures Labs. CESLIC Report CBB6
- \* Data Report L29 (BLLD 3123.781V)

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Engineering Department  
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R

COMPOSITE BOX GIRDER BIFURCATED BRIDGE PROJECT:  
LIVE LOAD DATA: HB VEHICLE LOAD ON LANE BC<sub>2</sub> OF  
NOMINALLY CRACKED STRUCTURE WITH INTER-BOX BRACING  
REMOVED  
Owens, G.W. et al.

- \* Eng. Structures Labs. CESLIC Report CBB6
- \* Data Report L30 (BLLD 3123.781V)

Imperial College of Science & Technology, Civil  
Engineering Department  
September 1977 pp.77

R

COMPOSITE BOX GIRDER BIFURCATED BRIDGE PROJECT:  
LIVE LOAD DATA: HB VEHICLE LOAD ON LANE BC2 OF  
NOMINALLY CRACKED STRUCTURE WITH INTER-BOX BRACING  
REMOVED  
Owens, G.W. et al.

- \* Eng. Structures Labs. CESLIC Report CBB6
- \* Data Report L31 (BLLD 3123.781V)

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Engineering Department  
September 1977 pp.77

R

COMPOSITE BOX GIRDER BIFURCATED BRIDGE PROJECT:  
LIVE LOAD DATA: HB VEHICLE LOAD ON LANE BC<sub>2</sub>3B  
OF NOMINALLY CRACKED STRUCTURE WITH INTER-BOX  
BRACING REMOVED  
Owens, G.W. et al.

- \* Eng. Structures Labs. CESLIC Report CBB6
- \* Data Report L32 (BLLD 3123.781V)

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Engineering Department  
September 1977 pp.80

R

COMPOSITE BOX GIRDER BIFURCATED BRIDGE PROJECT:  
LIVE LOAD DATA: HB VEHICLE LOAD ON LANE BC<sub>2</sub> OF  
NOMINALLY CRACKED STRUCTURE WITH INTER-BOX<sub>1</sub>  
BRACING REMOVED  
Owens, G.W. et al.

- \* Eng. Structures Labs. CESLIC Report CBB6
- \* Data Report L33 (BLLD 3123.781V)

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Engineering Department  
September 1977 pp.79

R

COMPOSITE BOX GIRDER BIFURCATED BRIDGE PROJECT:  
LIVE LOAD DATA: HB VEHICLE LOAD ON LANE BC<sub>1</sub> OF  
NOMINALLY CRACKED STRUCTURE WITH INTER-BOX<sub>1</sub>  
BRACING REMOVED  
Owens, G.W. et al.

- \* Eng. Structures Labs. CESLIC Report CBB6
- \* Data Report L34 (BLLD 3123.781V)

Imperial College of Science & Technology, Civil  
Engineering Department  
September 1977 pp.79

R

COMPOSITE BOX GIRDER BIFURCATED BRIDGE PROJECT:  
LIVE LOAD DATA: APPLICATION OF UDL ON NOMINALLY  
CRACKED STRUCTURE AT LOAD FACTOR 1.0 WITH INTER-  
BOX BRACING REMOVED  
Owens, G.W. et al.

- \* Eng. Structures Labs. CESLIC Report CBB6
- \* Data Report L35 (BLLD 3123.781V)

Imperial College of Science & Technology, Civil  
Engineering Department  
September 1977 pp.79

R

COMPOSITE BOX GIRDER BIFURCATED BRIDGE PROJECT:  
LIVE LOAD DATA: APPLICATION OF UDL ON NOMINALLY  
CRACKED STRUCTURE AT LOAD FACTOR 1.3 WITH  
INTER-BOX BRACING REMOVED  
Owens, G.W. et al.

- \* Eng. Structures Labs. CESLIC Report CBB6
- \* Data Report L36 (BLLD 3123.781V)

Imperial College of Science & Technology, Civil  
Engineering Department  
September 1977 pp.104

R

COMPOSITE BOX GIRDER BIFURCATED BRIDGE PROJECT:  
LIVE LOAD DATA: APPLICATION OF UDL ON NOMINALLY  
CRACKED STRUCTURE AT LOAD FACTOR 1.3 WITH INTER-  
BOX BRACING REMOVED AFTER RE-LOADING SIX TIMES  
FROM LOAD FACTOR 0 TO 1.3

Owens, G.W. et al.

- \* Eng. Structures Labs. CESLIC Report CBB6
- \* Data Report L37 (BLLD 3123.781V)

Imperial College of Science & Technology, Civil  
Engineering Department  
September 1977 pp.103

R

COMPOSITE BOX GIRDER BIFURCATED BRIDGE PROJECT:  
LIVE LOAD DATA: LANES AB<sub>1</sub>, AB<sub>2</sub> AB<sub>3</sub> AND AB<sub>4</sub> LOADED  
INDIVIDUALLY TO LOAD FACTOR 1.3 ON NOMINALLY  
CRACKED STRUCTURE WITH INTER-BOX BRACING REMOVED  
Owens, G.W. et al.

- \* Eng. Structures Labs. CESLIC Report CBB6
- \* Data Report L38 (BLLD 3123.781V)

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Engineering Department  
September 1977 pp.104

R

COMPOSITE BOX GIRDER BIFURCATED BRIDGE PROJECT:  
LIVE LOAD DATA: LANES C<sub>1</sub>D<sub>1</sub>, C<sub>1</sub>D<sub>2</sub>, C<sub>2</sub>E<sub>1</sub>, C<sub>2</sub>E<sub>2</sub>, AND  
C<sub>2</sub>E<sub>3</sub> LOADED INDIVIDUALLY TO LOAD FACTOR 1.3 ON  
NOMINALLY CRACKED STRUCTURE WITH INTER-BOX  
BRACING REMOVED  
Owens, G.W. et al.

- \* Eng. Structures Labs. CESLIC Report CBB6
- \* Data Report L39 (BLLD 3123.781V)

Imperial College of Science & Technology, Civil  
Engineering Department  
September 1977 pp.134

R

COMPOSITE BOX GIRDER BIFURCATED BRIDGE PROJECT:  
LIVE LOAD DATA: LANE BC<sub>1</sub> LOADED TO LOAD FACTOR  
1.3 ON NOMINALLY CRACKED STRUCTURE WITH INTER-  
BOX BRACING REMOVED  
Owens, G.W. et al.

- \* Eng. Structures Labs. CESLIC Report CBB6
- \* Data Report L40 (BLLD 3123.781V)

Imperial College of Science & Technology, Civil  
Engineering Department  
September 1977 pp.77

R

COMPOSITE BOX GIRDER BIFURCATED BRIDGE PROJECT:  
LIVE LOAD DATA: LANE BC<sub>2</sub> LOADED TO LOAD FACTOR  
1.3 ON NOMINALLY CRACKED STRUCTURE WITH INTER-BOX  
BRACING REMOVED  
Owens, G.W. et al.

- \* Eng. Structures Labs. CESLIC Report CBB6
- \* Data Report L41 (BLLD 3123.781V)

Imperial College of Science & Technology, Civil  
Engineering Department  
September 1977 pp.77

R

COMPOSITE BOX GIRDER BIFURCATED BRIDGE PROJECT:  
LIVE LOAD DATA: LANE BC<sub>2</sub> LOADED TO LOAD FACTOR  
1.3 ON NOMINALLY CRACKED STRUCTURE WITH INTER-  
BOX BRACING REMOVED  
Owens, G.W. et al.

- \* Eng. Structures Labs. CESLIC Report CBB6
- \* Data Report L42 (BLLD 3123.781V)

Imperial College of Science & Technology, Civil  
Engineering Department  
September 1977 pp.79

R

COMPOSITE BOX GIRDER BIFURCATED BRIDGE PROJECT:  
LIVE LOAD DATA: LANE BC<sub>2</sub> LOADED TO LOAD FACTOR  
1.3 ON NOMINALLY CRACKED STRUCTURE WITH INTER-  
BOX BRACING REMOVED  
Owens, G.W. et al.

- \* Eng. Structures Labs. CESLIC Report CBB6
- \* Data Report L43 (BLLD 3123.781V)

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Engineering Department  
September 1977 pp.77

R

COMPOSITE BOX GIRDER BIFURCATED BRIDGE PROJECT:  
LIVE LOAD DATA: LANE BC<sub>2</sub>3A LOADED TO LOAD FACTOR  
1.3 ON NOMINALLY CRACKED STRUCTURE WITH INTER-  
BOX BRACING REMOVED  
Owens, G.W. et al.

- \* Eng. Structures Labs. CESLIC Report CBB6
- \* Data Report L44 (BLLD 3123.781V)

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Engineering Department  
September 1977 pp.77



R  
COMPOSITE BOX GIRDER BIFURCATED BRIDGE PROJECT:  
LIVE LOAD DATA: LANE BC<sub>2</sub><sup>3</sup>B LOADED TO LOAD FACTOR  
1.3 ON NOMINALLY CRACKED STRUCTURE WITH INTER-BOX  
BRACING REMOVED  
Owens, G.W. et al.

- \* Eng. Structures Labs. CESLIC Report CBB6
- \* Data Report L45 (BLLD 3123.781V)

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Engineering Department  
September 1977 pp.78

R  
COMPOSITE BOX GIRDER BIFURCATED BRIDGE PROJECT:  
LIVE LOAD DATA: SUPPORT BB SETTLEMENT TEST  
Owens, G.W. et al.

- \* Eng. Structures Labs. CESLIC Report CBB6
- \* Data Report L46 (BLLD 3123.781V)

Imperial College of Science & Technology, Civil  
Engineering Department  
September 1977 pp.102

R  
COMPOSITE BOX GIRDER BIFURCATED BRIDGE PROJECT:  
LIVE LOAD DATA: SUPPORT CC<sub>2</sub> SETTLEMENT TEST  
Owens, G.W. et al.

- \* Eng. Structures Labs. CESLIC Report CBB6
- \* Data Report L47 (BLLD 3123.781V)

Imperial College of Science & Technology, Civil  
Engineering Department  
September 1977 pp.102

R  
COMPOSITE BOX GIRDER BIFURCATED BRIDGE PROJECT:  
LIVE LOAD DATA: SUPPORT CC<sub>1</sub> SETTLEMENT TEST  
Owens, G.W. et al.

- \* Eng. Structures Labs. CESLIC Report CBB6
- \* Data Report L48 (BLLD 3123.781V)

Imperial College of Science & Technology, Civil  
Engineering Department  
September 1977 pp.102

R  
COMPOSITE BOX GIRDER BIFURCATED BRIDGE PROJECT:  
LIVE LOAD DATA: SUPPORT EE SETTLEMENT TEST  
Owens, G.W. et al.

- \* Eng. Structures Labs. CESLIC Report CBB6
- \* Data Report L49 (BLLD 3123.781V)

Imperial College of Science & Technology, Civil  
Engineering Department  
September 1977 pp.101

R  
COMPOSITE BOX GIRDER BIFURCATED BRIDGE PROJECT:  
LIVE LOAD DATA: SUPPORT DD SETTLEMENT TEST  
Owens, G.W. et al.

- \* Eng. Structures Labs. CESLIC Report CBB6
- \* Data Report L50 (BLLD 3123.781V)

Imperial College of Science & Technology, Civil  
Engineering Department  
September 1977 pp.101

R  
COMPOSITE BOX GIRDER BIFURCATED BRIDGE PROJECT:  
ULTIMATE LOAD DATA: ULTIMATE LOAD BEHAVIOUR AT  
LOAD FACTOR 0.4  
Owens, G.W. et al.

- \* Eng. Structures Labs CESLIC Report CBB7
- \* Data Report U1 (BLLD 3123.783V)

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Engineering Department  
June 1977 pp.98

R  
COMPOSITE BOX GIRDER BIFURCATED BRIDGE PROJECT:  
ULTIMATE LOAD DATA: ULTIMATE LOAD BEHAVIOUR AT  
LOAD FACTOR 1.3  
Owens, G.W. et al.

- \* Eng. Structures Labs. CESLIC Report CBB7
- \* Data Report U2 (BLLD 3123.783V)

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Engineering Department  
June 1977 pp.98

R  
COMPOSITE BOX GIRDER BIFURCATED BRIDGE PROJECT:  
ULTIMATE LOAD DATA: ULTIMATE LOAD BEHAVIOUR AT  
LOAD FACTOR 1.7  
Owens, G.W. et al.

- \* Eng. Structures Labs. CESLIC Report CBB7
- \* Data Report U3 (BLLD 3123.783V)

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Engineering Department  
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R  
COMPOSITE BOX GIRDER BIFURCATED BRIDGE PROJECT:  
ULTIMATE LOAD BEHAVIOUR AT LOAD FACTOR 2.0  
Owens, G.W. et al.

- \* Eng. Structures Labs. CESLIC Report CBB7
- \* Data Report U4 (BLLD 3123.783V)

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Engineering Department  
June 1977 pp.98

R

COMPOSITE BOX GIRDER BIFURCATED BRIDGE PROJECT:  
ULTIMATE LOAD DATA: ULTIMATE LOAD BEHAVIOUR AT  
LOAD FACTOR 2.3  
Owens, G.W. et al.

- \* Eng. Structures Labs. CESLIC Report CBB7
- \* Data Report U5 (BLLD 3123.783V)

Imperial College of Science & Technology, Civil  
Engineering Department  
June 1977 pp.98

R

COMPOSITE BOX GIRDER BIFURCATED BRIDGE PROJECT:  
ULTIMATE LOAD DATA: ULTIMATE LOAD BEHAVIOUR AT  
LOAD FACTOR 2.6  
Owens, G.W. et al.

- \* Eng. Structures Labs. CESLIC Report CBB7
- \* Data Report U6 (BLLD 3123.783V)

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Engineering Department  
June 1977 pp.98

R

COMPOSITE BOX GIRDER BIFURCATED BRIDGE PROJECT:  
ULTIMATE LOAD DATA: ULTIMATE LOAD BEHAVIOUR AT  
LOAD FACTOR 2.9  
Owens, G.W. et al.

- \* Eng. Structures Labs. CESLIC Report CBB7
- \* Data Report U7 (BLLD 3123.783V)

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Engineering Department  
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R

COMPOSITE BOX GIRDER BIFURCATED BRIDGE PROJECT:  
ULTIMATE LOAD DATA: ULTIMATE LOAD BEHAVIOUR AT  
LOAD FACTOR 3.2  
Owens, G.W. et al.

- \* Eng. Structures Labs. CESLIC Report CBB7
- \* Data Report U8 (BLLD 3123.783V)

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Engineering Department  
June 1977 pp.98

R

COMPOSITE BOX GIRDER BIFURCATED BRIDGE PROJECT:  
ULTIMATE LOAD DATA: ULTIMATE LOAD BEHAVIOUR AT  
LOAD FACTOR 3.5  
Owens, G.W. et al.

- \* Eng. Structures Labs. CESLIC Report CBB7
- \* Data Report U9 (BLLD 3123.783V)

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Engineering Department  
June 1977 pp.98

R

COMPOSITE BOX GIRDER BIFURCATED BRIDGE PROJECT:  
ULTIMATE LOAD DATA: ULTIMATE LOAD BEHAVIOUR AT  
LOAD FACTOR 3.75 PRIOR TO INSTALLING AUXILIARY  
JACKS AT COLUMN BB  
Owens, G.W. et al.

- \* Eng. Structures Labs. CESLIC Report CBB7
- \* Data Report U10 (BLLD 3123.783V)

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Engineering Department  
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R

COMPOSITE BOX GIRDER BIFURCATED BRIDGE PROJECT:  
ULTIMATE LOAD DATA: ULTIMATE LOAD BEHAVIOUR AT  
LOAD FACTOR 3.75 AFTER INSTALLING AUXILIARY  
JACKS AT COLUMN BB  
Owens, G.W. et al.

- \* Eng. Structures Labs. CESLIC Report CBB7
- \* Data Report U11 (BLLD 3123.783V)

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Engineering Department  
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R

COMPOSITE BOX GIRDER BIFURCATED BRIDGE PROJECT:  
ULTIMATE LOAD DATA: ULTIMATE LOAD BEHAVIOUR AT  
LOAD FACTOR 4.0  
Owens, G.W. et al.

- \* Eng. Structures Labs. CESLIC Report CBB7
- \* Data Report U12 (BLLD 3123.783V)

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Engineering Department  
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R

COMPOSITE BOX GIRDER BIFURCATED BRIDGE PROJECT:  
ULTIMATE LOAD DATA: ULTIMATE LOAD BEHAVIOUR AT  
LOAD FACTOR 4.3  
Owens, G.W. et al.

- \* Eng. Structures Labs. CESLIC Report CBB7
- \* Data Report U13 (BLLD 3123.783V)

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Engineering Department  
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R

COMPOSITE BOX GIRDER BIFURCATED BRIDGE PROJECT:  
ULTIMATE LOAD DATA: ULTIMATE LOAD BEHAVIOUR AT  
LOAD FACTOR 4.6  
Owens, G.W. et al.

- \* Eng. Structures Labs. CESLIC Report CBB7
- \* Data Report U14 (BLLD 3123.783V)

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Engineering Department  
June 1977 pp.98

R

COMPOSITE BOX GIRDER BIFURCATED BRIDGE PROJECT:  
ULTIMATE LOAD DATA: ULTIMATE LOAD BEHAVIOUR AT  
LOAD FACTOR 4.9  
Owens, G.W. et al.

- \* Eng. Structures Labs. CESLIC Report CBB7
- \* Data Report U15 (BLLD 3123.783V)

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Engineering Department  
June 1977 pp.98

R

COMPOSITE BOX GIRDER BIFURCATED BRIDGE PROJECT:  
ULTIMATE LOAD DATA: ULTIMATE LOAD BEHAVIOUR AT  
LOAD FACTOR 5.2  
Owens, G.W. et al.

- \* Eng. Structures Labs. CESLIC Report CBB7
- \* Data Report U16 (BLLD 3123.783V)

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Engineering Department  
June 1977 pp.98

R

COMPOSITE BOX GIRDER BIFURCATED BRIDGE PROJECT:  
ULTIMATE LOAD DATA: ULTIMATE LOAD BEHAVIOUR AT  
LOAD FACTOR 5.5 PRIOR TO LOCAL FAILURE OF MIDDLE  
AND OUTER BOXES AT COLUMN BB  
Owens, G.W. et al.

- \* Eng. Structures Labs. CESLIC Report CBB7
- \* Data Report U17 (BLLD 3123.783V)

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Engineering Department  
June 1977 pp.98

R

COMPOSITE BOX GIRDER BIFURCATED BRIDGE PROJECT:  
ULTIMATE LOAD DATA: ULTIMATE LOAD BEHAVIOUR AT  
LOAD FACTOR 5.5 AFTER LOCAL FAILURE OF MIDDLE  
AND OUTER BOXES AT COLUMN BB  
Owens, G.W. et al.

- \* Eng. Structures Labs. CESLIC Report CBB7
- \* Data Report U18 (BLLD 3123.783V)

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Engineering Department  
June 1977 pp.98

R

COMPOSITE BOX GIRDER BIFURCATED BRIDGE PROJECT:  
ULTIMATE LOAD DATA: ULTIMATE LOAD BEHAVIOUR AT  
LOAD FACTOR 5.25 AFTER FORMING HINGE AT COLUMN BB  
Owens, G.W. et al.

- \* Eng. Structures Labs. CESLIC Report CBB7
- \* Data Report U19 (BLLD 3123.783V)

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Engineering Department  
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R

COMPOSITE BOX GIRDER BIFURCATED BRIDGE PROJECT:  
ULTIMATE LOAD DATA: ULTIMATE LOAD BEHAVIOUR AT  
LOAD FACTOR 5.38 AFTER FORMING HINGE AT COLUMN BB  
Owens, G.W. et al.

- \* Eng. Structures Labs. CESLIC Report CBB7
- \* Data Report U20 (BLLD 3123.783V)

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Engineering Department  
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R

COMPOSITE BOX GIRDER BIFURCATED BRIDGE PROJECT:  
ULTIMATE LOAD DATA: ULTIMATE LOAD BEHAVIOUR AT  
LOAD FACTOR 3.5 AFTER FORMING HINGES AT COLUMNS  
BB, CC<sub>1</sub> AND CC<sub>2</sub>  
Owens, G.W. et al.

- \* Eng. Structures Labs. CESLIC Report CBB7
- \* Data Report U21 (BLLD 3123.783V)

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Engineering Department  
June 1977 pp.98

R

COMPOSITE BOX GIRDER BIFURCATED BRIDGE PROJECT:  
ULTIMATE LOAD DATA: ULTIMATE LOAD BEHAVIOUR AT  
LOAD FACTOR 3.5 PRIOR TO FORMING HINGE AT  
BIFURCATION

Owens, G.W. et al.

- \* Eng. Structures Labs. CESLIC Report CBB7
- \* Data Report U22 (BLLD 3123.783V)

Imperial College of Science & Technology, Civil  
Engineering Department

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R

COMPOSITE BOX GIRDER BIFURCATED BRIDGE PROJECT:  
ULTIMATE LOAD DATA: ULTIMATE LOAD BEHAVIOUR AT  
LOAD FACTOR 3.0 AFTER FORMING COLLAPSE MECHANISM  
AT LOAD FACTOR 4.8

Owens, G.W. et al.

- \* Eng. Structures Labs. CESLIC Report CBB7
- \* Data Report U23 (BLLD 3123.783V)

Imperial College of Science & Technology, Civil  
Engineering Department

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R

COMPOSITE BOX GIRDER BIFURCATED BRIDGE PROJECT:  
ULTIMATE LOAD DATA: RESIDUAL UNLOADED STRAIN  
LEVEL

Owens, G.W. et al.

- \* Eng. Structures Labs. CESLIC Report CBB7
- \* Data Report U24 (BLLD 3123.783V)

Imperial College of Science & Technology, Civil  
Engineering Department

June 1977 pp.98

R

COMPOSITE BOX GIRDER BIFURCATED BRIDGE PROJECT:  
ULTIMATE LOAD DATA: TOTAL STRAIN LEVEL PRIOR TO  
LOCAL FAILURE OF MIDDLE AND OUTER BOXES AT  
COLUMN BB

Owens, G.W. et al.

- \* Eng. Structures Labs. CESLIC Report CBB7
- \* Data Report U25 (BLLD 3123.783V)

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Engineering Department

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R

COMPOSITE BOX GIRDER BIFURCATED BRIDGE PROJECT:  
ULTIMATE LOAD DATA: TOTAL STRAIN LEVEL AFTER  
LOCAL FAILURE OF MIDDLE AND OUTER BOXES AT  
COLUMN BB

Owens, G.W. et al.

- \* Eng. Structures Labs. CESLIC Report CBB7
- \* Data Report U26 (BLLD 3123.783V)

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Engineering Department

June 1977 pp.98

R

COMPOSITE BOX GIRDER BIFURCATED BRIDGE PROJECT:  
ULTIMATE LOAD DATA: TOTAL STRAIN LEVEL PRIOR TO  
FORMING HINGE AT BIFURCATION

Owens, G.W. et al.

- \* Eng. Structures Labs. CESLIC Report CBB7
- \* Data Report U27 (BLLD 3123.783V)

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Engineering Department

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R

COMPOSITE BOX GIRDER BIFURCATED BRIDGE PROJECT:  
ULTIMATE LOAD DATA: TOTAL RESIDUAL UNLOADED  
STRAIN LEVEL

Owens, G.W. et al.

- \* Eng. Structures Labs. CESLIC Report CBB7
- \* Data Report U28 (BLLD 3123.783V)

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Engineering Department

June 1977 pp.98

R

COMPOSITE BOX GIRDER BIFURCATED BRIDGE PROJECT:  
ULTIMATE LOAD DATA: GRAPHS OF CROSS SECTION  
1, 2, 8 AND 9 STRAIN GAUGE DATA; LINEAR  
DISPLACEMENT TRANSDUCER AND COLUMN REACTION AND  
JACK TIE ROD LOAD RESULTS

Owens, G.W. et al.

- \* Eng. Structures Labs. CESLIC Report CBB7
- \* Data Report U29 (BLLD 3123.783V)

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Engineering Department

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R

COMPOSITE BOX GIRDER BIFURCATED BRIDGE PROJECT:  
ULTIMATE LOAD DATA: GRAPHS OF CROSS-SECTION 3, 4,  
5, 6, 7, 10 AND P STRAIN GAUGE DATA  
Owens, G.W. et al.

- \* Eng. Structures Labs. CESLIC Report CBB7
- \* Data Report U30 (BLLD 3123.783V)

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Engineering Department  
June 1977 pp.98

R

FIELD MEASUREMENTS OF THE SOUND INSULATION OF  
PARTY WALLS IN TIMBER-FRAMED DWELLINGS  
Sewell, E.C. and Alphey, R.S.

- \* Building Research Estab. Current Paper
- \* BRE CP 39/77 (BLLD 3501.128)

B.R.E.  
August 1977 pp.5

R

GALE DAMAGE TO BUILDINGS AND STRUCTURES IN THE  
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- \* N.P.L. Division of Quantum Metrology
- \* NPL Report QU 44 (BLLD 6029.36)

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- \* Daresbury Laboratory Tech. Memo.
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- \* Royal Aircraft Estab. Technical Memorandum
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- \* IRS Work Report 293 Nov. 1976 56pp
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Central Water Planning Unit

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Chartered Institute of Public Finance & Accountancy

1 Buckingham Place, London SW1E 6AS

Child Poverty Action Group

1 Macklin Street, London WC2

Cleveland County Council

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Reference Division, 15-16 Bedford Street, London WC2E 9HX

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Bedfordshire MK43 0AL

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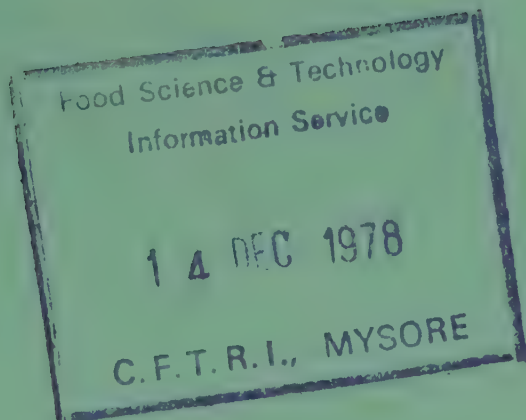
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Devon County Council  
March 1978 pp.92 £1.00

R  
RESOURCE RECOVERY: FACTORS INFLUENCING CHOICE  
OF METHODS AND EQUIPMENT LEADING TO OBJECTIVE  
ASSESSMENT OF TRIAL AND PILOT PLANTS  
Warren, J.L.

\* (BLLD f78/1514)  
  
Greater London Council  
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R  
A TAPE-CONTROLLED REMOTE AUTOMATIC DIAMETER  
MEASUREMENT MACHINE  
Jennison, W. and Salmon, A.M.  
  
\* Northern Division Report  
\* ND-R 42 (BLLD 9091.9F)  
  
U.K.A.E.A. (H.M.S.O.)  
January 1978 pp.35 £1.50

T  
HOSE PIPES FOR TYPE EL FUEL OIL REQUIREMENTS,  
TESTING

\* German Standard DIN 4798 Pt. 1 Nov. 1976  
\* BG TRANS 4380 (BLLD 9022.048)

B.L.L.D. pp.17

R  
CALCULATION OF STRESS INTENSITY FACTORS USING  
THE UNCLE FINITE ELEMENT SYSTEM AND THEIR  
APPLICATION IN FRACTURE MECHANICS  
Pearce, J.H.B.

T  
STATIONARY FAN-ASSISTED WARM AIR HEATERS.  
GENERAL AND VENTILATION ENGINEERING  
REQUIREMENTS. TESTING

\* German Standard DIN 4794 Pt. 1 June 1977  
\* BG TRANS 4381 (BLLD 9022.048)

B.L.L.D. pp.35

\* Northern Division Report  
\* ND-R 122 (BLLD 9091.9F)

U.K.A.E.A. (H.M.S.O.)  
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T  
STATIONARY FAN-ASSISTED WARM AIR HEATERS. OIL  
FIRED WARM AIR HEATERS. REQUIREMENTS

\* German Standard DIN 4794 Pt. 2 June 1977  
\* BG TRANS 4382 (BLLD 9022.048)

B.L.L.D. pp.6

T  
INSULATING JOINTS FOR SERVICE PIPES IN GAS AND  
WATER SUPPLY. PREFABRICATED INSULATORS

\* German Standard DIN 3389 Draft Feb. 1977  
\* BG TRANS 4378 (BLLD 9022.048)

B.L.L.D. pp.13

T  
FLOW MEASUREMENT. ORIFICE FLANGES. WELDING  
NECK TYPE, LENS SHAPE SEALING SURFACE RATED  
PRESSURE: 64 TO 400

\* German Standard DIN 19214 Pt. 3 Draft Feb. 1977  
\* BG TRANS 4383 (BLLD 9022.048)

B.L.L.D. pp.3

T  
LUBRICANTS FOR GAS VALVES. GAS VALVES IN GAS  
DISTRIBUTION NETWORKS

\* German Standard DIN 3536 Sht. 1 July 1976  
\* BG TRANS 4379 (BLLD 9022.048)

B.L.L.D. pp.8



T  
IGNITION TRANSFORMERS FOR GAS AND OIL BURNING  
SYSTEMS. MAIN DIMENSIONS, HIGH-TENSION TERMINALS

- \* German Standard DIN 42 570 Pt. 2 Draft July 1977
- \* BG TRANS 4384 (BLLD 9022.048)

B.L.L.D. pp.4

T  
TESTING OF THERMAL INSULATIONS. DETERMINATION  
OF THE THERMAL RESISTANCE OF WALLS AND CEILINGS  
PUTTING OF TEST RESULTS INTO SUITABLE FORM FOR  
APPLICATION IN CONSTRUCTION ENGINEERING

- \* German Standard DIN 52611 Pt. 2 June 1976
- \* BG TRANS 4385 (BLLD 9022.048)

B.L.L.D. pp.5

T  
PRESSURE TEST TECHNIQUES FOR PIPE LINES AND  
PIPE LINE INSTALLATIONS IN THE GAS UTILIZATION

- \* German Standard DVGW G469 Oct. 1977
- \* BG TRANS 4386 (BLLD 9022.048)

B.L.L.D. pp.20

T  
WASTE GAS REMOVAL. AIR-WASTE GAS CHIMNEYS  
(SE-DUCTS)

- \* German Standard DVGW. G 627 Dec 1976
- \* BG TRANS 4387 (BLLD 9022.048)

B.L.L.D. pp.11

T  
GAS INSTALLATIONS. DETERMINATION OF THE LOAD  
COEFFICIENT FOR THE DETERMINATION OF PIPE  
WIDTH BY A SIMPLIFIED METHOD USING CHARACTERISTIC  
FACTORS

- \* German Standard DVGW G661 Dec. 1976
- \* BG TRANS 4388 (BLLD 9022.048)

B.L.L.D. pp.15

T  
MEASURING UNITS FOR GAS AND WATER ENGINEERING

- \* German Standard DVGW GW 110 Sept. 1976
- \* BG TRANS 4389 (BLLD 9022.048)

B.L.L.D. pp.16

T  
WASTEGAS PURIFICATION BY THERMAL COMBUSTION

- \* German Standard VDI 2442 Draft Aug. 1975
- \* BG TRANS 4390 (BLLD 9022.048)

B.L.L.D. pp.18

T  
FIRE DAMP AND EXPLOSION PROOF ELECTRICAL  
MEASURING INSTRUMENTS

- \* East German Standard TGL 19 500 Jan. 1966
- \* BG TRANS 4391 (BLLD 9022.048)

B.L.L.D. pp.3

T  
GAS TRANSMISSION AND DISTRIBUTION INSTALLATIONS  
GAS PRESSURE CONTROL PLANT-OPERATION, MAINTENANCE

- \* East German Standard TGL 190-360 Sht. 2 Nov. 197
- \* BG TRANS 4392 (BLLD 9022.048)

B.L.L.D. pp.5

T  
FLUE PIPES AND ACCESSORIES. TESTING AND  
CLASSIFICATION

- \* Hungarian Standard MSZ 8840 Sheet 6 1975
- \* BG TRANS 4393 (BLLD 9022.048)

B.L.L.D. pp.8

T  
FLUE PIPES AND ACCESSORIES. WALL DISCS

- \* Hungarian Standard MSZ 8840 Sheet 3 1975
- \* BG TRANS 4394 (BLLD 9022.048)

B.L.L.D. pp.4

T  
FLUE PIPES AND ACCESSORIES. WALL SLEEVES

\* Hungarian Standard MSZ 8840 Sheet 5 1975  
\* BG TRANS 4395 (BLLD 9022.048)

B.L.L.D. pp.5

T  
STANDARD FOR LIQUEFIED GAS REGULATORS (SCREW-  
TYPE)

\* Iranian Standard ISIRI 732  
\* BG TRANS 4396 (BLLD 9022.048)

B.L.L.D. pp.22

T  
STANDARD FOR LOW-PRESSURE HOSE PIPES FOR FUEL  
GASES

\* Iranian Standard ISIRI 774  
\* BG TRANS 4397 (BLLD 9022.048)

B.L.L.D. pp.14

T  
GAS COCKS

\* Japanese Standard JIS S2120-1976  
\* BG TRANS 4398 (BLLD 9022.048)

B.L.L.D. pp.8

T  
GAS ANALYSER FOR GENERAL ANALYSIS OF NATURAL  
AND INDUSTRIAL GAS

\* Russian Standard GOST 7018-75  
\* BG TRANS 4399 (BLLD 9022.048)

B.L.L.D. pp.17

T  
NEW ELECTRONIC DEVELOPMENTS IN THE FIELD OF  
GAS MEASUREMENT  
Schlager, M.

\* GWF Gas Erdgas 1978 119 (2) 61-63  
\* BG TRANS 4405 (BLLD 9022.048)

B.L.L.D. pp.7

T  
GAS FIRING IN INDUSTRIAL FURNACES

\* German Standard DVGW G 610 June 1977  
\* BG TRANS 4411 (BLLD 9022.048)

B.L.L.D. pp.17

T  
GAS METERS. POSITIVE DISPLACEMENT GAS METERS.  
DIAPHRAGM GAS METER

\* German Standard Oin 3374 Draft Sept. 1977  
\* BG TRANS 4420 (BLLD 9022.048)

B.L.L.D. pp.19

T  
GAS VALVES. REQUIREMENTS, APPROVAL TESTS

\* German Standard DIN 3537 Pt. 1 Draft Sept. 1977  
\* BG TRANS 4421 (BLLD 9022.048)

B.L.L.D. pp.13

T  
GAS VALVES. REQUIREMENTS AND APPROVAL TESTS  
FOR PLUG COCKS

\* German Standard DIN 3557 Pt. 2 Draft Sept. 1977  
\* BG TRANS 4422 (BLLD 9022.048)

B.L.L.D. pp.5

T  
VALVES FOR GAS INSTALLATIONS. BUTTERFLY VALVES  
WITH FEMALE THREAD ENDS

\* German Standard DIN 3538 Draft Sept. 1977  
\* BG TRANS 4423 (BLLD 9022.048)

B.L.L.D. pp.4

T  
DUCTILE CAST IRON PRESSURE PIPES AND CAST  
SHAPES FOR GAS AND WATER SUPPLY SERVICES  
TECHNICAL SPECIFICATIONS

\* German Standard DIN 28 600 Aug. 1977  
\* BG TRANS 4424 (BLLD 9022.048)

B.L.L.D. pp.10



T  
GAS DISTRIBUTION; CONSTRUCTION OF GAS PIPELINES  
FOR AN OPERATIONAL PRESSURE UP TO 4 BAR, MADE  
OF STEEL PIPE

- \* German Standard DVGW G462 Pt. 1 Sept. 1976
- \* BG TRANS 4425 (BLLD 9022.048)

B.L.L.D. pp.20

T  
GOVERNORS FOR DOMESTIC LOW PRESSURE. GAS  
APPLIANCES SUPPLIED THROUGH GAS MAINS. SAFETY  
REQUIREMENTS

- \* Italian Standard UNI 7430-75 Nov. 1975
- \* BG TRANS 4426 (BLLD 9022.048)

B.L.L.D. pp.17

T  
CONDITIONS TO BE MET BY CENTRAL HEATING  
BOILERS FITTED WITH ATMOSPHERIC BURNER USING  
NATURAL GAS OF THE SLOCHTEREN TYPE AND  
CONNECTED TO A FLUE OR TO A DEVICE TO TAKE  
AWAY THE PRODUCTS OF COMBUSTION

- \* Belgian Standard ARGB 1-71 Jan 1975
- \* and Addendum Dec. 1975
- \* BG TRANS 4430 (BLLD 9022.048)

B.L.L.D. pp.14

T  
MARKING OF PIPELINES FOR IDENTIFICATION OF  
FLUIDS (SCOPE AND HEADINGS ONLY)

- \* Finnish Standard SFS 3701 May 1976
- \* BG TRANS 4431 (BLLD 9022.048)

B.L.L.D. pp.1

T  
AUTOMATIC TIGHTNESS CONTROL DEVICES FOR GAS  
BURNING DEVICES

- \* German Standard (No number) Draft (No date)
- \* BG TRANS 4432 (BLLD 9022.048)

B.L.L.D. pp.7

T  
STEEL TUBES: MEDIUM WEIGHT, SUITABLE FOR  
THREADING

- \* German Standard DIN 2440 Draft Jan 1977
- \* BG TRANS 4433 (BLLD 9022.048)

B.L.L.D. pp.7

T  
STEEL TUBES: HEAVY WEIGHT, SUITABLE FOR  
THREADING

- \* German Standard DIN 2441 Draft Jan 1977
- \* BG TRANS 4434 (BLLD 9022.048)

B.L.L.D. pp.10

T  
FACE-TO-FACE DIMENSIONS OF VALVES. FLANGED  
VALVES

- \* German Standard DIN 3202 Part 1 Feb. 1977
- \* BG TRANS 4435 (BLLD 9022.048)

B.L.L.D. pp.5

T  
FACE-TO-FACE DIMENSIONS OF VALVES. VALVES  
WITH INTERNALLY THREADED SOCKETS

- \* German Standard DIN 3202 Pt. 4 Draft Mar. 1977
- \* BG TRANS 4436 (BLLD 9022.048)

B.L.L.D. pp.4

T  
GAS TURBINES ACCEPTANCE TESTS

- \* German Standard DIN 4341 Draft Aug. 1977
- \* BG TRANS 4437 (BLLD 9022.048)

B.L.L.D. pp.49

T  
GAS FURNACES FOR HEATING INSTALLATIONS, DESIGN  
CONSTRUCTION, SAFETY PRINCIPLES

- \* German Standard DIN 4756 June 1977
- \* BG TRANS 4438 (BLLD 9022.048)

B.L.L.D. pp.20

T  
FLOW MEASUREMENT: ORIFICE PLATES FOR INSERTION  
BETWEEN FLANGES IN FLOW-MEASURING DEVICES:  
SEALING SURFACE: TONGUE AND GROOVE. NOMINAL  
PRESSURE: 10 TO 160

- \* German Standard DIN 19206 Part 2 Apr. 1977
- \* BG TRANS 4439 (BLLD 9022.048)

B.L.L.D. pp.2

T  
INSTALLATION OF GAS BURNING APPLIANCES.  
INSTALLATION OF SMALL INDUSTRIAL (COMMERCIAL)  
GAS BURNING APPLIANCES

- \* German Standard DVGW G631 June 1977
- \* BG TRANS 4440 (BLLD 9022.048)

B.L.L.D. pp.9

T  
DIMENSIONS OF STAINLESS STEEL PIPES AND PIPE  
SOCKETS AS USED IN THE PETROLEUM AND GAS  
INDUSTRIES

- \* Hungarian Standard MSZ 5135 Jan 1977
- \* BG TRANS 4441 (BLLD 9022.048)

B.L.L.D. pp.10

T  
GAS BURNERS: A CLASSIFICATION

- \* Hungarian Standard MSZ 11427/1 April 1977
- \* BG TRANS 4442 (BLLD 9022.048)

B.L.L.D. pp.5

T  
SAFETY AND CONTROL INSTALLATIONS ON GAS  
APPLIANCES: THERMOSTATIC BURNER CONTROL

- \* Hungarian Standard MSZ 11410/2 April 1977
- \* BG TRANS 4443 (BLLD 9022.048)

B.L.L.D. pp.12

T  
GAS-FIRED DOMESTIC AND INDUSTRIAL HEATING  
APPLIANCES. FLEXIBLE TUBES FOR GAS SUPPLY  
(SCOPE AND HEADINGS ONLY)

- \* Portugese Standard NP 1038 Definitive 1974
- \* BG TRANS 4444 (BLLD 9022.048)

B.L.L.D. pp.2

T  
GAS-FIRED DOMESTIC AND INDUSTRIAL HEATING  
APPLIANCES. TERMINOLOGY (SCOPE ONLY)

- \* Portugese Standard NP 1240 1240 Definitive 1976
- \* BG TRANS 4445 (BLLD 9022.048)

B.L.L.D. pp.1

T  
DETERMINATION OF FLUID FLOW IN PRESSURE PIPE  
SYSTEMS. METHOD: LOCAL THROTTLING OF FLOW  
SECTION WITH MEASUREMENT BY MEANS OF NOZZLES  
AND ORIFICE PLATES. GENERAL PROVISIONS

Rumanian Standard STAS 7347/1 - 1974  
(Scope and headings Only)  
BG TRANS 4446 (BLLD 9022.048)

B.L.L.D. pp.3

T  
MALLEABLE CAST IRON THREADED PIPE FITTINGS

- \* Spanish Standard UNE 19 - 491 Feb. 1975
- \* (Scope and headings Only)
- \* BG TRANS 4447 (BLLD 9022.048)

B.L.L.D. pp.4

T  
DESIGN AND CHARACTERISTICS OF LOAD CELLS WITH  
STRAIN GAUGES  
Pastow, J.

- \* Wagen Dosieren 1975 6 (6) 229-234
- \* BISI 15126 (BLLD 9022.06)

B.I.S.I. pp.12 £6.00



T  
HARD PVC VALVES. HARD POLYVINYL CHLORIDE VALVES  
(SHEET 1) BALL VALVES (SHEET 2) DIAPHRAGM VALVES  
(SHEET 3)

- \* German Standard DIN 3441 Sheet 1, Feb. 1975.
- \* Sheet 2 (Draft) Mar. 1975. Sheet 3 (Draft)
- \* Mar. 1975
- \* BG TRANS 4348 (BLLD 9022.048)

B.L.L.D. pp.18

T  
PIPING AND PIPE COUPLINGS. EXTREMITIES'  
MEASUREMENTS OF NOT THREADABLE STEEL PIPES  
FOR WATER OR GAS PIPELINES AND SEWERS

- \* Belgian Standard NBN A35-101 a 105 (Addend. 1)
- \* BG TRANS 4363 (BLLD 9022.048)

B.L.L.D. pp.4

T  
DISCHARGE VALVES  
Royal Assoc. of Gas Manufacturers in the  
Netherlands Specifications Committee

- \* Dutch Standard V196/77/KVGN/250
- \* BG TRANS 4364 (BLLD 9022.048)

B.L.L.D. pp.16

T  
FUEL GAS APPLIANCES. CONNECTION ALLOYS AND  
FLUX (BRONZE WELDING OF COPPER TUBES)

- \* French Standard A.T.G. B524-7 Jan. 1976
- \* BG TRANS 4366 (BLLD 9022.048)

B.L.L.D. pp.4

T  
FUEL GAS APPLIANCES. CONNECTION ALLOYS AND  
FLUX (CAPILLARY BRAZING OF COPPER TUBING).  
METHODS OF TESTING CONNECTION ALLOYS AND FLUX

- \* French Standard A.T.G. B524-5 Jan. 1976
- \* BG TRANS 4367 (BLLD 9022.048)

B.L.L.D. pp.5

T  
FUEL GAS APPLIANCES. CONNECTION ALLOYS AND  
FLUX ("SOFT" CAPILLARY BRAZING OF COPPER TUBING)

- \* French Standard A.T.G. B524-4 Jan. 1976
- \* BG TRANS 4368 (BLLD 9022.048)

B.L.L.D. pp.4

T  
FUEL GAS APPLIANCES. CONNECTION ALLOYS AND FLUX  
("HARD" CAPILLARY BRAZING OF COPPER TUBING)

- \* French Standard A.T.G. B524-3 Jan. 1976
- \* BG TRANS 4369 (BLLD 9022.048)

B.L.L.D. pp.4

T  
FUEL GAS APPLIANCES. CONNECTION BY BRONZE  
WELDING OF COPPER TUBES OF DIAMETER ABOVE OR  
EQUAL TO 42mm

- \* French Standard A.T.G. B524-6 Jan. 1976
- \* BG TRANS 4370 (BLLD 9022.048)

B.L.L.D. pp.4

T  
FUEL GAS APPLIANCES. COPPER AND COPPER ALLOY  
JOINTS FOR CONNECTION BY CAPILLARY BRAZING  
(MAX. DIMENSION 54mm)

- \* French Standard A.T.G. B524-2 Jan. 1976
- \* BG TRANS 4371 (BLLD 9022.048)

B.L.L.D. pp.11

T  
FUEL GAS APPLIANCES. COPPER TUBES AND  
CONNECTIONS

- \* French Standard A.T.G. B534-0 Jan. 1976
- \* BG TRANS 4372 (BLLD 9022.048)

B.L.L.D. pp.2

T  
FUEL GAS APPLIANCES. ROUND COPPER TUBES FOR  
CONNECTION BY CAPILLAR BRAZING

- \* French Standard A.T.G. B524-1 Jan. 1976
- \* BG TRANS 4373 (BLLD 9022.048)

B.L.L.D. pp.3

METHOD AND EQUIPMENT (Cont'd.)

T  
INSTALLATION OF FUEL GASES. CONNECTING ALLOYS  
(BRONZE WELDING AND STRONG CAPILLARY BRAZING  
OF STEEL PIPE SECTIONS)

- \* French Standard A.T.G. B521-1 Nov. 1975
- \* BG TRANS 4374 (BLLD 9022.048)

B.L.L.D. pp.7

T  
INSTALLATION OF FUEL GASES; STEEL TUBES AND  
ACCESSORIES

- \* French Standard A.T.G. B521-0 Nov. 1975
- \* BG TRANS 4375 (BLLD 9022.048)

B.L.L.D. pp.8

T  
INSTALLATION OF FUEL GASES. TESTS OF THE  
CONNECTING ALLOY (INTENDED FOR BRONZE WELDING  
AND STRONG CAPILLARY WELDING OF STEEL  
PIPELINE SECTIONS)

- \* French Standard A.T.G. B521-2 Nov. 1975
- \* BG TRANS 4376 (BLLD 9022.048)

B.L.L.D. pp.12

T  
FLUE GAS. FLAP VALVES FOR GAS FIRED SYSTEMS.  
THERMALLY CONTROLLED

- \* German Standard DIN 3388 Pt. 1 Draft Apr. 1977
- \* BG TRANS 4377 (BLLD 9022.048)

B.L.L.D. pp.13

T  
METHOD FOR CURING A LIGHT-CURABLE COATING  
COMPOUND AND ARRANGEMENT FOR THE IMPLEMENTATION  
OF THE METHOD

- \* German Patent 25 14 249 1975
- \* OA TRANS 1629 (BLLD 6196.3)

B.L.L.D. pp.33

T  
THE APPLICATION OF PYROLYTIC GAS CHROMATOGRAPHY  
TO THE TESTING OF PLASTICS  
Koltai, L. and Barla, F.

- \* Muanyag Gumi 1977 14 (6) 182-186
- \* PORS 3589 (BLLD 7737.47)

B.L.L.D. pp.17

T  
ENERGY REQUIREMENTS: 1975-2000  
Giraud, A. and Ferrari, A.

- \* CEA Notes Inf. 1977 (9)
- \* DOUNREAY TRANS 789 (BLLD 9091.9F)

B.L.L.D. pp.24

T  
FORGINGS FOR COMPRESSOR SHAFT AND WHEELS.  
SPECIFICATIONS FOR SUPPLY AND INSPECTION

- \* Societe Rateau Specification ST DIN-01-62/2
- \* RISLEY TRANS 3304 (BLLD 9091.9F)

B.L.L.D. pp.8

T  
CRANES: PRINCIPLES FOR STEEL STRUCTURES AND  
CALCULATIONS

- \* German Standard DIN 15018 (Blatt 1) Apr. 1974
- \* BISI 14435 (BLLD 9022.06)

B.I.S.I. pp.64 £16.00

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TURBINE WHEEL GAS METERS  
Schmittner, D.

- \* GWF Gas Erdgas 1978 119 (2) 51-56
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Miller, M.K.

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Love, G.

- \* Doctoral Thesis - University of Bath
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DEVELOPMENT OF AN INTENSE OPTICALLY PUMPED  
LASER OF NARROW BANDWIDTH IN THE FAR INFRARED  
Taylor, G.

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Greenwood, D.

- \* Aberdeen Studies in Defence Economics
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B.L.L.D. pp.27

T  
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B.L.L.D. pp.28

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CONSIDERATIONS  
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T.R.C.  
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SIZE, SHAPE AND DEPTH V TEMPERATURES  
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METHOD FOR THE DETERMINATION OF MERCURY IN  
BIOLOGICAL MATERIALS  
Collier, T.R.

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THE WINDSCALE ADVANCED GAS-COOLED REACTOR  
Sandalls, F.J.

\* Atomic Energy Research Estab. Report  
\* AERE-R 8580 (BLLD 9091.9F)

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Cottell, K.R.J. et al

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USING THE NEUTRON COINCIDENCE METHOD  
Bohnel, K.

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CIRCUIT METHOD  
Kameari, A. and Suzuki, Y.

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- \* Report JAERI-M-7177 Tokyo 1977
- \* (List of contents, fig. captions and tables only)
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B.L.L.D. pp.11

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WITH POLOIDAL DIVERTOR  
Bazaova, A.B. et al

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FUR REAKTORBAUELEMENTE (IRB)

- \* Progress Report IRB 1976 31-45
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B.L.L.D. pp.42

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ROTATION AND PARTICLE TRANSPORT IN A PLASMA  
UN DER THE INFLUENCE OF EXTERNAL FORCES AND  
CURRENTS  
Nemov, V.V.

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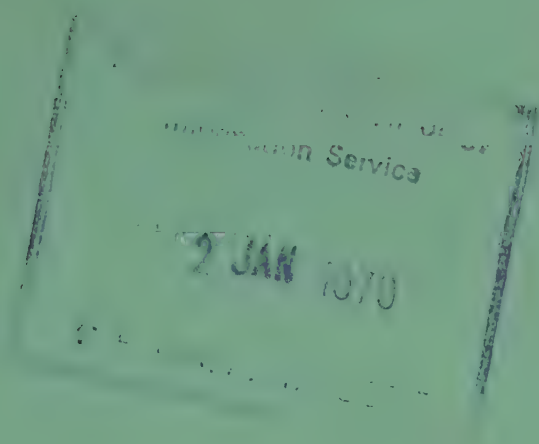
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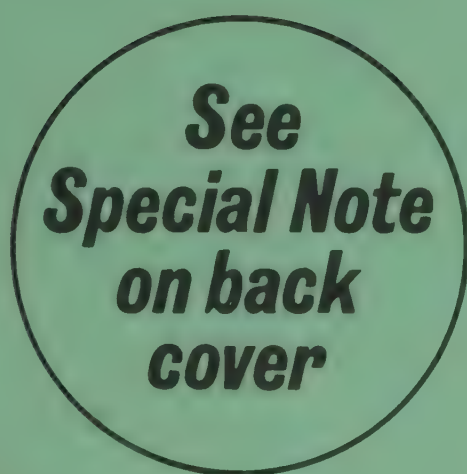
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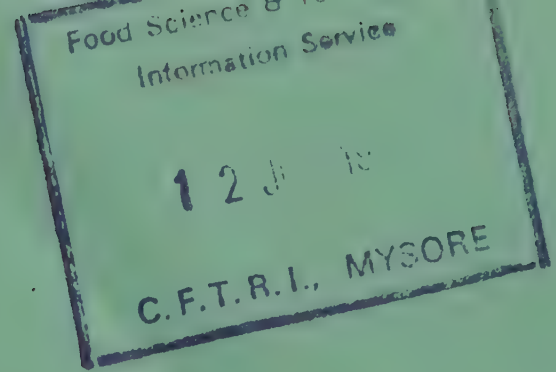
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- \* French Standard NF E 29-488 Sept. 1976
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Sheffield Univ. Dept. of Chemical Engineering  
and Fuel Technology  
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## ADDRESSES AND NOTES

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### Anchor Housing Association

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Oxford, OX1 3BP

### Association of Insurance and Risk Managers in Industry and Commerce

William & Glyn's Bank Ltd., 25 Millbank,  
London, SW1P 4RB

### Association for Neighbourhood Councils

48 Parker Way, Halstead, Essex

### Avon County Council

Avon House North, St. James Barton, Bristol,  
BS99 7NB

### Bedfordshire County Council

County Hall, Cauldwell Street, Bedford, MK42

### BG Trans - British Gas Corporation

59 Bryanston Street, London, W1A 2AZ

### B.I.S.I.

Iron and Steel Institute, 1 Carlton House  
Terrace, London, SW1Y 5DB

### British Association of Settlements and Social Action Centres

7 Exton Street, London, SE1 8UE

### Brunel University (Brunel Institute of Organisation & Social Studies)

B.I.O.S.S., Uxbridge, Middlesex, UB8 3PH

### B.S.C.

Welsh Laboratory, Port Talbot, West Glamorgan  
SA13 3NS

### Buckinghamshire County Council

Department of Health and Welfare, Aylesbury,

### CEGB (Berkeley Nuclear Laboratories)

CEGB, Berkeley, Gloucestershire

### Central Council for Agricultural & Horticultural Co-operation

Hancock House, Vincent Square, London, SW1

### Centre for Policy Studies

Wilfred Street, London, SW1

### Centre for Studies in Social Policy

62 Doughty Street, London, WC1

### C.E.S.

Centre for Environmental Studies, 5 Cambridge  
Terrace, Regents Park, London, NW1

### C.F.P.R.A.

Campden Food Preservation Research Association  
Chipping Campden, Glos.

### Chemical & Allied Products Industry Training Board

Staines House, 158/162 High Street, Staines,  
Middlesex

### Child Poverty Action Group

1 Macklin Street, London, WC2

### Civil Aviation Authority

Aviation House, 129 Kingsway, London, WC2



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Commonwealth Forestry Institute

Department of Forestry, The University, Oxford

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Council for Educational Technology for the  
United Kingdom

3 Devonshire Street, London W1N 2BA

Cumbria County Council

The Courts, Carlisle, CA3 8LZ

Department of Energy

Thames House South, Millbank, London, SW1P 4QJ

Department of the Environment

EcUR Division, Directorate of Research &  
Information, Thames House (South), Millbank,  
London, SW1

Devon County Council

County Hall, Exeter

Ealing Technical College

Woodlands Avenue, Acton, London, W3 9DN

East Roding Community Health Council

Secretary, 4th Floor, Ilford Lane Chambers,  
Ilford, Essex, IG1 2QU

East of Scotland College of Agriculture

West Mains Road, Edinburgh, EH9 3JG

Economist Intelligence Unit Ltd.

Spencer House, 27 St. James's Place, London,  
SW1A 1NT

E.C.R.C.

Electricity Council Research Centre,  
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Electricity Council

30 Millbank, London, SW1

Electricity Supply Industry Training Committee

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Further Education Staff College

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County Hall, London, SE1 7PB

Grant & Partners

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Humberside County Council

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Highlands & Islands Development Board

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London, SW7

Industrial Market Research Ltd.

17 Buckingham Gate, London, SW1

Institute of Administrative Management

205 High Street, Beckenham, Kent. BR3 1BA

Institute of Geological Sciences

Geophysical Division, Herstmonceux Castle,  
Hailsham, Sussex

Institute of Hydrology

Maclean Building, Growmarsh Gifford, Wallingford  
Berkshire

Institution of Structural Engineers

11 Upper Belgrave Street, London, SW1X 8BH

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Institute of Building, Englemere, Kings Ride,  
Ascot, Berkshire, SL5 8BJ

Jordan Dataquest Limited

Jordan House, 47 Brunswick Place, London, N1 6EE

L.A.M.S.A.C.

Local Authorities Management Services &  
Computer Committee, 35 Belgrave Square, London,  
SW1X 8QB

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County Hall, Leicester Rd. Gelnfield, Leicester

Leicester University

The University, Leicester

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Local Government Operational Research Unit,  
Central Group & London and S.E. Group,  
201 King's Road, Reading, RG1 4LH, Berks

Manchester Polytechnic

All Saints, Manchester

MCB Publications Ltd.

198/200 Keighley Road, Bradford, West Yorkshire,  
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Mental Health Foundation

8 Wimpole Street, London, W1M 8HY

Middlesex Polytechnic

Queensway, Enfield, Middlesex, EN3 4SF

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Whitehall Place, London, SW1

National Association of Youth Clubs

30 Devonshire Street, London, W1N 2AP

National Building Agency

N.B.A. House, 7 Arundel Street, London, WC2R 3DZ

Housing Corporation, Newton House, Sauchiehall  
Street, Charing Cross, Glasgow, G2 3NJ

National Consumer Council

18 Queen Anne's Gate, London, SW1

National Institute of Economic and Social  
Research

2 Dean Trench Street, Smith Square, London,  
SW1P 3HE

National Institute for Social Work

Mary Ward House, 5-7 Tavistock Place, London,  
WC1H 9SS

National Maritime Institute

Faggs Road, Feltham, Middlesex, TW14 0LQ

National Society for Mentally Handicapped  
Children

North West Region, 1 Brazenose Street,  
Manchester, N2 5FJ

National Union of Teachers

Hamilton House, Mabledon Place, London, WC1H 9BD



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<u>Natural Energy Centre</u>	161 Clarence Street, Kingston Upon Thames, Surrey, KT1 1QT
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<u>N.E.L.</u>	National Engineering Laboratory, East Kilbride, Glasgow, G75 0QU  Retention copies of any N.E.L. report can be obtained gratis from the National Engineering Laboratory
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<u>O.C.M.A.</u>	Oil Companies Materials Association, Cecil Chambers, 86 Strand, London, WC2R 0DX
<u>Office of Health Economics</u>	162 Regent Street, London, W1R 6DD
<u>Open University</u>	New Towns Study Unit, Faculty of Social Sciences, Open University, Wolton Hall, Milton Keynes, MK7 6AA
<u>Oxfordshire County Council</u>	County Hall, Oxford, OX1 1ND
<u>Peak Park Planning Board</u>	Aldern House, Baslow Road, Bakewell, Derbyshire, DE4 1AE
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<u>RoSPA</u> (Royal Society for the Prevention of Accidents)	Hamilton House, Mableton Place, London, WC1H 9BD
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Runnymede Trust Industrial Unit

Stuart House, 1 Tudor Street, London, EC4Y 0AD

Schools Council

Publications Section, 160 Great Portland Street  
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University of Liverpool

Centre for Latin American Studies, University of  
Liverpool, Brownlow Hill, Liverpool 3

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University of Oxford

Nuclear Physics Laboratory, University of  
Oxford, Oxford

University of Reading

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The University, Reading

Department of Economics, Whiteknights,  
Reading, RG6 2AU

University of Sheffield

Dept. Chemical Engineering & Fuel Technology,  
The University, Sheffield 10

University of Stirling

Department of Economics, Airthrey Estate,  
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University of Strathclyde

George Street, Glasgow, G1 1XW

University of Wales Institute of Science &  
Technology

Dept. Mechanical Engineering & Engineering  
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University of Warwick Library

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Control Theory Centre, Coventry, CV4 7AL  
Warwickshire

Warren Spring Laboratory

Gunnels Wood Road, Stevenage, Herts

West of Scotland Agricultural College

Economics Division, 178 Bothwell St.  
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